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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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OF

11

Complete if Known

Application Numbr: 09/768,413

Filing Dat: 1/24/01

First Named Inventor: M. Seul, et al.

Group Art Unit: 1743

Examiner Name:

Attorney Docket Number: PARSE - Con 1

Examiner Initials	U.S. Documents	U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number		
	5,723,233	Gerza et al.	2/1996
	4,806,776	Kley	8/1985
	6,141,048	Roth et al.	10/31/2000
	6,018,350	Lee, et al.	1/25/2000
	6,023,590	Abe, et al.	2/8/2000
	6,025,905	Sussman	2/15/2000
	6,123,263	Feng	9/26/2000
	6,161,062	Inoguchi et al.	11/21/2000
	3,918,525	Cugia	12/1976
	3,983,182	Hag	9/1976

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)		

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Notice of References Cited OIPE 185222003		Application/Control No. 09/768491 P/E	Applicant(s)/Inventor(s) SEUL, MICHAEL et al.
		Examiner SA	Art Unit 1743
U.S. PATENT DOCUMENTS			

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Classification
A	US-5,747,349	05-1998	van den Engh et al. 436
B	US-5,900,481	05-1999	Lough et al. 536
C	US-6,133,436	10-2000	Koster et al. 536
D	US-6,084,991	07-2000	Sampas 382
E	US-5,442,246	06-1995	Koopal et al. 435
F	US-		
G	US-		
H	US-		
I	US-		
J	US-		
K	US-		
L	US-		
M	US-		

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N	WO 99/18434	04/05/99	PCT		
O	WO 99/19515	04/12/99	PCT		
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)	
U		
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A copy of this reference is not being furnished with the Office action. (See MPEP § 707.05(e).)
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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket: PARSE - con1
Serial No. 6917003Applicant: Seul et al.
Filing Date: 1/24/01
Group Art Unit: 1743

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

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09/178745
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Sheet 4 of 12

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEU, Michael

et al.

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FILING DATE: 2/24/01

GROUP:

(74)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	6	4	8	9	0	5	2	2/12/85	Fuhwyler	422	52	8/30/82
AB	4	6	4	7	5	4	4	3/3/87	Nicoli et al.	438	516	6/25/85
AC	4	8	2	2	7	4	8	4/18/89	Walt	436	528	6/25/88
AD	4	9	8	4	3	7	3	2/18/91	Stavropoulos et al.	435	6	7/20/89
AE	5	0	0	2	8	6	7	3/26/91	Macevick	435	6	10/24/88
AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88
AG	5	1	0	5	3	0	5	4/14/92	Gettig	359	368	1/10/81
AH	5	1	1	4	8	8	4	5/19/92	Walt	436	528	8/19/89
AI	5	1	3	2	2	4	2	7/21/92	Chuang	436	501	11/13/89
AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	8/4/90
AK	5	1	4	3	8	5	3	9/11/92	Walt	436	501	2/2/89

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL	0 2 8 8 7 6 4	8/8/88	EP	C12B	11/88		X
AM	0 4 7 8 3 1 8	4/10/82	EP	C12B	11/88		X
AN	0 7 2 3 1 4 5	7/24/88	EP	GO1N	21/84		X
AO	8 9 1 1 1 0 1	11/16/89	PCT	GO1N	33/548		X
AP	9 3 0 2 3 6 0	2/4/93	PCT	GO1N	33/536		X

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

AG	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

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Sheet 5 of 12

FORM PTO-1449
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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.:

PARSE - cont

SERIAL NO.:

09/168,463

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

REC

FILING DATE:

10/16/03

GROUP: 14 25 (243)

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TC 17

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA		5	1	8	4	3	6	6	3/16/93	Cheung	427	213.31	1/16/93
BB		5	2	4	4	8	1	3	9/14/93	Walt et al.	435	172	4/20/92
BC		5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91
BD		5	2	5	0	2	5	4	10/16/93	Walt et al.	422	82.07	1/22/92
BE		5	2	5	2	4	9	4	10/17/93	Walt	438	528	3/10/92
BF		5	2	5	4	4	7	7	10/18/93	Walt	438	172	9/19/91
BG		5	2	8	6	7	4	1	3/29/94	Walt et al.	250	227.23	1/13/93
BH		5	3	0	6	6	1	8	4/26/94	Prober et al.	435	8	1/16/92
BI		5	3	2	0	8	1	4	8/14/94	Walt et al.	422	82.07	1/25/92
BJ		5	3	8	2	6	5	3	11/18/94	Carr et al.	436	185	5/5/92
BK		5	4	0	9	7	8	4	4/11/95	Van Heegeenden	436	523	2/25/93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
														YES	NO
BL		9	3	0	6	1	2	1	4/1/93	PCT	607H	21/00			
BM		9	3	2	4	5	1	7	12/9/93	PCT	607K				X
BN		9	7	1	4	0	2	8	4/17/97	PCT	601N	15/10			X
BO															X
BP															

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

BR: Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," *Nature*, vol. 353: 338-340 (1991).

BR: Campion, et al., "Colored and Fluorescent Solid Supports," *Innovation and Perspectives in Solid-Phase Synthesis* . Ed: E. Birmingham (Mayflower, London), pp. 489-472 (1994).

BS: Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," *SPiE*, vol. 2388 : 245-256 (1995).

GROUP 170
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Sheet 6 of 10

FORM PTO 1449
(REV. 7-80)

U.S. PATENT AND TRADEMARK OFFICE
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09/168403

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LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT: BEUL, Michael

et al.

162

GROUP: 3

FILING DATE: 11/20/03

11/20/03

TC 1743

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CA	5 4 8 0 7 2 3	10/18	Kleing et al.	428	441	5/17/94
CB	5 8 1 4 6 2 3	REVIEW	Wu et al.	428	518	12/14/95
CC	5 4 8 6 9 9 3	10/18	Perez	250	227.21	1/5/94
CD	5 8 1 2 4 8 3	10/20/93	Wu et al.	438	171	8/7/1993
CE	5 8 8 5 3 2 4	10/15/93	Shin et al.	435	6	4/12/94
CF	5 8 6 7 8 2 7	10/22/93	Lapidoz	436	518	1/15/93
CG	5 8 3 3 7 2 4	9/27/97	Kay et al.	356	445	8/29/95
CH	5 8 3 3 9 7 4	8/27/97	Wu et al.	385	116	1/17/95
CI	5 8 6 0 4 8 5	10/20/97	Lam et al.	530	334	6/19/91
CJ	5 8 6 2 0 8 5	10/20/97	Marz	428	403	4/25/95
CK	5 8 7 4 5 9 8	10/20/97	Talling et al.	435	7.82	3/30/95

FOREIGN PATENT DOCUMENTS

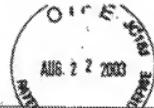
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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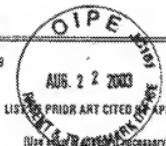
FORM PTO-1649 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE						ATTY. DOCKET NO.: PARSE-1000	SERIAL NO.: 01 (763,41)			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)								APPLICANT(S): SEUL, Michael	REC'D.			
								FILING DATE: 11/12/00	11/12/00 11/13/01 TC 100			
U.S. PATENT DOCUMENTS												
EXAMINER INITIAL		DOCUMENT NUMBER					DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DA		5	6	9	0	9	9	Punkel et al.	422	68.1	5/23/95	
DB		5	7	6	0	9	9	Kleiner et al.	528	15	5/30/95	
DC		5	7	7	9	9	7	Leland et al.	422	52	6/5/95	
DD		5	9	3	9	0	2	Hansen et al.	422	55	1/23/97	
DE		5	9	6	1	9	2	Nove et al.	422	88.1	8/30/96	
DF		5	9	6	5	4	5	Koves	438	148	7/8/98	
DG		6	0	4	8	8	8	Heller et al.	435	8	5/14/97	
DR		6	0	9	0	5	4	Wohlgemuth et al.	435	8	3/6/97	
GI		6	0	9	0	9	1	Leibl et al.	530	300	11/23/98	
DJ		6	2	0	0	7	3	Wohlgemuth et al.	430	220	8/24/95	
DK												
FOREIGN PATENT DOCUMENTS										RECEIVED GROUP 100 SET 12/2003		
		DOCUMENT NUMBER					DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
											YES	NO
GL												
DM												
DN												
DD												
DP												
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)												
DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun., pp. 735-738 (1997)											
DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43(9, pp. 1749-1756 (1997).											
DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).											
EXAMINER							DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.												



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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: PARSE- <i>cont</i>		SERIAL NO. 700 09/168,413	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael et al.			
				FILING DATE: 10/06/2001		GROUP: 1743	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA							
EB							
EC							
ED							
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EF							
EG							
EH							
EI							
EJ							
EK							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
EL							YES NO
EM							
EN							
EO							
EP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).						
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)						
ES							
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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LIST OF PRIOR ART CITED BY APPLICANT
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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 771-1000011-

PARSE - cont

APPLICANT: SEUL, Michael

FILING DATE: (Serial No. or Appl. No.)

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GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SA						
BB						
BC						
BD						
BE						
BF						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BG							
BH							
BI							

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

BU	Trau et al., "Field-induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 705-709 (1996)
BX	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 475-483 (1995)
BL	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 487-490 (1995)
BM	Heat et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3258 (1995)
BN	Richter et al., <i>J. Physique Lettr.</i> , vol. 45 : L1137 to L1143 (1984)
BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1991)
BP	
BO	
BR	

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: <i>PARIS - 601</i>	SERIAL NO.: <i>01/708,463</i>			
AUG. 27 2003 LIST OF PRIOR ART CITED BY APPLICANT (Use separate sheet if necessary)									APPLICANT(S): Seul, Michael	REC			
									FIING DATE: <i>1/velor</i>	AUG 25 GROUP: <i>TC 170c 1743</i>			
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FIING DATE IF APPROPRIATE	
AA		3	8	9	8	5	2	5	12/21/78	Giglia	358	160	08/21/75
AB		4	0	7	5	0	1	3	02/21/78	Ward et al.	96	1.5	09/13/78
AC		4	4	5	6	5	1	3	06/28/84	Kawai et al.	204	180	08/25/82
AD		4	5	7	5	4	0	2	03/11/88	Dillar	204	67	10/24/84
AE		4	5	9	1	5	5	0	05/27/88	Hafeman et al.	436	4	04/05/84
AF		5	4	4	4	3	3	0	08/22/85	Levenits et al.	313	506	02/18/83
AG		5	5	8	7	1	2	8	12/24/86	Widng et al.	422	50	11/14/84
AH		5	4	9	8	3	8	2	03/12/86	Widng et al.	422	68.1	09/19/84
AI		5	8	9	5	7	5	3	01/05/89	Truu et al.	204	484	11/26/86
AJ		6	0	3	3	5	4	7	03/07/00	Truu et al.	204	622	01/04/98
AK													
FOREIGN PATENT DOCUMENTS													
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											YES	NO	
AL		9	8	0	4	5	6	7	02/15/98	PCT	001N	27/03	
AM													3
AN													
AO													
AP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386: 57-59 (1997)												
AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 8334-8336												
AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558-560 (1993)												
EXAMINER								DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Initial to be confirmed later with next communication to applicant.													

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FORM PTO-1449
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ATTY. DOCKET NO.: 4

SERIAL NO.:

09/1708,413

PAPRUE-601

REFC

APPLICANT(S): SEUL, Michel

AUG 2

FILING DATE: 1/24/03

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1/24/03

PCT/M547

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		1	2	3	4	5	6	7						
	AA	4	7	1	7	6	5	5	01/05/88	Fulwyler	435	7		10/15/84
	AB	5	4	7	3	9	0	8	11/12/98	Singer et al.	435	8		05/20/94
	AC	5	5	8	5	8	6	9	12/17/98	Zarzuela et al.	422	100		11/10/94
	AD	5	5	9	3	8	3	8	01/14/97	Zarzuela et al.	435	6		05/01/95
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402		06/07/95
	AF	5	7	4	4	3	0	5	04/28/96	Fedor et al.	435	8		08/05/95
	AG	5	8	0	7	7	5	5	08/15/98	Espin	436	518		05/23/95
	AH	5	8	3	7	5	5	1	11/17/98	Ekua	436	518		12/23/94
	AI	5	8	7	4	2	1	9	02/23/98	Reva et al.	435	8		04/09/95
	AJ	5	9	8	9	8	3	5	11/23/99	Dundley et al.	435	7.2		02/27/97
	AK	8	0	2	3	5	4	0	02/08/00	Walt et al.	385	12		03/14/97

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		1	2	3	4	5	6	7					YES	NO
	AL	9	5	1	2	8	5	8	05/11/95	PCT	601N	21/00		X
	AM	9	6	0	7	9	1	7	03/14/96	PCT	601N	36/00		X
	AN	9	7	4	0	3	8	3	10/30/97	PCT	601N	38/543		X
	AO	9	8	0	5	0	0	7	02/12/98	PCT	603F	7/00		X
	AP	9	8	5	3	3	0	0	11/26/98	PCT	601N	21/00		X

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)

AR	Michelletto et al., <i>Langmuir</i> , vol. 11, 3333-3338 (1995)
AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
AT	

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Application Number: 09/170000

Filing Date: 12/14/00

First Named Inventor: M. Seufert et al.

Group Art Unit: 1743

Examiner Name: *[Signature]*

Attorney Docket Number: PARSE - Co

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Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
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	6,172,218 B1		Brenner	1/9/2001
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	Office	Number	Kind Code (if known)		
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		WO 99/00170	Baier, et al.	11/25/1999	
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		WO 00/03004	Fedteler, et al.	1/20/2000	
		WO 00/75373	Walt, et al.	12/14/2000	

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